EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|----------------|---|---------------------|---------|------------------|
| L1 | 5 | "2005020825" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/12/08 14:06 |
| L2 | 2 | "20050020825" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/12/08 14:07 |
| L3 | 2 | "20050031588" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/12/08 14:09 |
| L4 | 7 | "2004002999" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/12/08 14:10 |
| L5 | 6 | "2004003000" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/12/08 14:40 |
| L6 | 614 | 514/43.ccls. | US-PGPUB; USPAT | OR | ON | 2006/12/08 14:40 |
| L7 | 787 | 514/49.ccls. | US-PGPUB; USPAT | OR | ON | 2006/12/08 14:40 |
| L8 | 338 | 536/28.5.ccls. | US-PGPUB; USPAT | OR | ON | 2006/12/08 14:40 |

. 1 -== 1 ,

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         AUG 30
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                 CA/CAplus fields enhanced with simultaneous left and right
                  truncation
NEWS 8
         SEP 25
                  CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25
NEWS 10 SEP 25
                  CAS REGISTRY(SM) no longer includes Concord 3D coordinates
                  CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28
                  CEABA-VTB classification code fields reloaded with new
                  classification scheme
NEWS 12 OCT 19
                  LOGOFF HOLD duration extended to 120 minutes
NEWS 13 OCT 19
NEWS 14 OCT 23
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                  Option to turn off MARPAT highlighting enhancements available
NEWS 15 OCT 23
                  CAS Registry Number crossover limit increased to 300,000 in
                  multiple databases
NEWS 16 OCT 23
                  The Derwent World Patents Index suite of databases on STN
                  has been enhanced and reloaded
NEWS 17
         OCT 30
                  CHEMLIST enhanced with new search and display field
NEWS 18
         NOV 03
                  JAPIO enhanced with IPC 8 features and functionality
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         NOV 10
                  8.01c now available
NEWS 21 NOV 13
                  CA/CAplus pre-1967 chemical substance index entries enhanced
                  with preparation role
NEWS 22 NOV 20
                  CAS Registry Number crossover limit increased to 300,000 in
                  additional databases
NEWS 23 NOV 20
                  CA/CAplus to MARPAT accession number crossover limit increased
                  to 50,000
NEWS 24 NOV 20
                 CA/CAplus patent kind codes will be updated
NEWS 25 DEC 01 CAS REGISTRY updated with new ambiguity codes
NEWS EXPRESS
              NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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McIntosh

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L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss sam

SAMPLE SEARCH INITIATED 13:52:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 15 TO ITERATE

100.0% PROCESSED 15 IT

15 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

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BATCH **COMPLETE**

PROJECTED ITERATIONS: PROJECTED ANSWERS:

68 TO 532 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 13:52:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 257 TO ITERATE

100.0% PROCESSED 257 ITERATIONS

SEARCH TIME: 00.00.01

L3 30 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

166.94

30 ANSWERS

167.15

FULL ESTIMATED COST

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=> s 13

L4 16 L3

 \Rightarrow d bib abs hitstr 1-16 14

- L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2006:1086375 CAPLUS
- TI Ribavirin antagonizes the in vitro anti-hepatitis C virus activity of 2'-C-methylcytidine, the active component of valopicitabine
- AU Coelmont, Lotte; Paeshuyse, Jan; Windisch, Marc P.; De Clercq, Erik; Bartenschlager, Ralf; Neyts, Johan
- CS Rega Institute for Medical Research, KULeuyen, Louvain, 3000, Belg.
- SO Antimicrobial Agents and Chemotherapy (2006), 50(10), 3444-3446 CODEN: AMACCQ; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- AB Ribavirin antagonizes the in vitro anti-hepatitis C virus (HCV) activity of the pyrimidine nucleoside analog 2'-C-methylcytidine, the active component of the exptl. anti-HCV drug valopicitabine. In contrast, the combination of ribavirin with either the purine nucleoside analog 2'-C-methyladenosine or the HCV protease inhibitor VX-950 resulted in an additive antiviral activity. These findings may have implications when planning clin. studies with valopicitabine.
- IT INDEXING IN PROGRESS
- IT 640281-90-9D, Valopicitabine, metabolite

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ribavirin antagonizes anti-hepatitis C virus activity of 2'-C-methylcytidine, active component of valopicitabine)

RN 640281-90-9 CAPLUS

CN L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L4
     ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
     2006:101/1471 CAPLUS
AN
DN
     145:363620
TΙ
     Pharmadeutical compositions comprising ribofuranosylcytidine derivatives
TN
     Jores,/Katja; Meyer, Andreas
     Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
PA
     PCT int. Appl., 14pp.
     CODEN: PIXXD2
DΤ
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                             APPLICATION NO.
                                                                    DATE
PΤ
     WO 2006100087
                          A2
                                2006/0928
                                             WO 2006-EP2693
                                                                    20060323
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
             KZ, LC, LK,
                         LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
             MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
             SG, SK, SL,
                         SM, SY,
                                 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
                                                                          VC,
             VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
PRAI US 2005-664733P
                          Ρ
                                2005/0324
    A pharmaceutical composition a \not\!\!\!/ d granules are prepared by a wet granulation
     process. The pharmaceutical composition and granulates contain a therapeutic
     compound, e.g., the 3'-L-valine ester of \beta-D-2'-C-
     methylribofuranosylcytidine and its salts, esters, prodrugs or derivs.
     Tablets containing the above compound were prepared by wet granulation.
     640281-90-9 640725-71-9
     RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (pharmaceutical compns. comprising ribofuranosylcytidine derivs.)
     640281-90-9 CAPLUS
RN
     L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RN 640725-71-9 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HCl

```
ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
     2006:981749 CAPLUS
ΑN
DN
     145:335928
     Preparation of 1,5-dihydro-3-hydroxy-2H-pyrrol-2-ones as Mdm2 protein
TΙ
     modulato#s
IN
     Weber, Lutz
PA
     Germany
     Ger. Øffen., 11pp.
SO
     CODEN: GWXXBX
DT
     Patent
LA
     German
FAN.CNT 1
     PATENT NO.
                         KIND
                                 DATE
                                             APPLICATION NO.
                                                                     DATE
     DE 102005012681
                          Α1
                                 2006
                                             DE 2005-102005012681
                                                                     20050318
PRAI DE 2005-102005012681
                                 200 0318
OS
     MARPAT 145:335928
GI
```

$$R^{2}$$
 N
 O
 $C1$
 N
 O
 Ph
 OH
 OH

AB Title compds. I [R1, R2 = cycloalkyl, heteroaryl, aryl, etc.; R3 = H, alkyl, cycloalkyl, etc.) and their pharmaceutically acceptable salts were prepared For example, coupling of carboxylic acid II [X = OH] and 2-methoxyethylamine afforded amide II [X = NHCH2CH2OCH3]. Compds. I are are noted as Mdm2 protein modulators (no data provided). ΙT

640281-90-9, Valopicitabine RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (medicaments with; preparation of 3-hydroxy-2H-pyrrolones as Mdm2 protein modulators)

RN

640281-90-9 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME) CN

```
NH2
R R
R
          ÓН
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```
ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
L4
     2006:976176 CAPLUS
ΔN
DN
     145:335951
     Tetrahydro soquinolin-1-ones as HDM2 ligands, their preparation,
     pharmaceytical compositions, and use for the treatment of cancer
ΤN
     Weber, Lutz
PA
     Germany
SO
     PCT Int. Appl., 42pp.
     CODEN: PIXXD2
DТ
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                            KIND
                                    DATE
                                                 APPLICATION NO.
                                                                           DATE
                                                  -----
     WO 2006097323
                                    20060921
РΤ
                                                 WO 2006-EP2471
                                                                           20060317
                             A1
          W: AE, AG, AL, AM, AT, XU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
              MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
              SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
                                                                                  VC,
              VN, YU, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, $D, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ,
                                    TM
PRAI DE 2005-102005012680 A
                                    20050318
OS
     MARPAT 145:335951
```

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention relates to compds. according to formula I, which are HDM2 protein ligands, inducing apoptosis and inhibiting proliferation, and having therapeutic utility in cancer therapy. In compds. I, R1 is selected from (un)substituted morpholinyl, (un)substituted pyrrolidinyl, (un)substituted piperazinyl, OR5, and NR5R6, where R5 and R6 are independently selected from H, alkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, arylalkyl, and heteroarylalkyl; R2 and R3 are independently selected from aryl, heteroaryl, arylalkyl, or heteroarylalkyl; and R4 is selected from H, OH, halo, nitro, lower alkyl, lower alkenyl, lower alkynyl, lower alkoxy, and NR7R8, where R7 and R8 are independently selected from H, lower alkyl, lower alkoxyalkyl, heterocyclyl, aryl, and heteroaryl. The invention also relates to the preparation of I, pharmaceutical compns. comprising a compound I, optionally in combination with a pharmaceutically acceptable carrier, as well as to the use of the compns. for the treatment of cancer. Condensation of 4-chlorobenzaldehyde with 4-chlorobenzylamine followed by heterocyclization with homophthalic anhydride gave isoquinolinonecarboxylic acid II, which was amidated with 2-methoxyethylamine to give isoquinolinone III. The compds. of the invention are ligands of HDM2 (no data). TT 640281-90-9, Valopicitabine RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of tetrahydroisoquinolinones as HDM2 ligands for the treatment of cancer) 640281-90-9 CAPLUS

L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)

RN

Absolute stereochemistry.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L4
     ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ΑN
     2006:894484 CAPLUS
DN
     145:285094
TΙ
     Glucosidase inhibitor combinations with adjunctive therapies for treating
     or preventing Flaviviridae infections
    Migenix /Fnc/,, Can.
U.S. Pat. Appl. Publ., 69pp.
CODEN: USXXCO
Patent
IN
     Dugourd, Dominique; Rubinchik, Evelina; Clement, Jacob; Friedland, Hillel
PΑ
SO
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                          KIND
                                  DATE
                                              APPLICATION NO.
                                                                       DATE
     US 2006194835
                           Α1
                                  2006 831
                                              US 2006-351885
                                                                       20060209
     WO 2006096285
                                  200 0914
                                              WO 2006-US4927
                                                                       20060209
                           A2
         W: AE, AG, AL, AM, AT, Ay', AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR,
                          CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
             ΚZ,
                 LC, LK,
                          LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
             MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
             SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
             VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT,
                          LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI,
                          CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD,
                          RU,
                              TJ, TM
                                  20090209
PRAI US 2005-651910P
                           P
     US 2005-664297P
                           Р
                                  200/50321
```

GI

US 2005-735464P

The present disclosure relates generally to compns. having a glucosidase inhibitor [castanospermine (I) or a derivative thereof, such as celgosivir] in combination with adjunctive therapies of compds. that alter immune function (such as interferon) and compds. that alter viral replication (such as nucleoside analogs like ribavirin), which can be used to treat or prevent infections caused by or associated with a virus of the Flaviviridae family, particularly infections caused by or associated with Hepatitis C virus (HCV). Examples include synergy of castanospermine or celgosivir in combination with other drugs such as interferons in a checkboard approach.

IT 640725-71-9, NM283

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

20**Ø**51112

(glucosidase inhibitor combinations with adjunctive therapies for treating or preventing Flaviviridae infections)

RN 640725-71-9 CAPLUS

CN L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

L4 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2006:425398 CAPLUS

DN 145:39734

TI Nucleoside analog inhibitors of hepatitis C virus replication

AU Carroll, S. S.; Olsen, D. B.

CS Department of Antiviral Research, Merck Research Laboratories, West Point, PA, 19486, USA

SO Infectious Disorders: Drug Targets (2006), 6(1), 17-29 CODEN: IDDTAD; ISSN: 1871-5265

PB Bentham Science Publishers Ltd.

DT Journal; General Review

LA English

A review. Of the 30 compds. currently marketed in the United States for AB treatment of viral infections, 15 are nucleoside analogs, demonstrating the utility of this class of compound as a source of antiviral drugs. The success of nucleoside analogs in treating other viral infections provides a compelling rationale for the significant effort that is currently being devoted to the discovery and development of nucleoside analogs to treat infection by hepatitis C virus (HCV) that may lead to improvements in response rates compared to currently available therapies. Several different approaches were adopted to identify promising analogs, including the use of surrogate viruses in cell culture assays, screening in the cell-based bicistronic HCV replicon assay, and screening nucleoside triphosphates for the ability to inhibit the activity of the HCV RNA-dependent RNA polymerase in vitro. Several classes of ribonucleoside analogs with modifications of the ribose inhibit HCV replication. Nucleoside analogs incorporating a 2'-C-Me modification are potent inhibitors in the replicon assay in the absence of cytotoxicity, and appear to exert their inhibition by acting as functional chain terminators of RNA synthesis. NM283, a prodrug of 2'-C-methylcytidine, has entered clin. trials and demonstrated viral load redns. in subjects infected with genotype 1 HCV, a genotype known to be difficult to treat effectively with currently approved therapies. Overall, results to date offer encouragement that improved therapies to treat HCV infection including newly developed nucleoside analogs may become available within the next few years.

IT 640725-71-9, NM 283

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nucleoside analog inhibitors of hepatitis C virus replication)

RN 640725-71-9 CAPLUS

CN L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RE.CNT 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
L4
AN
     2006:342840 CAPLUS
     144:381956
ΤI
     Combination antiviral compositions comprising castanospermine and use for
     the treatment and prevention of infections caused by or associated with a
     virus of the Flaviviridae family
IN
     Dugourd, Deminique
     Migenix Inc., Can.
PCT Int. Appl., 54 pp.
PA
SO
     CODEN: PIXXD2
חת
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                          KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
PΤ
     WO 2006037227
                            Α1
                                  20060/13
                                               WO 2005-CA1528
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR,
                          CU, CZ, DE
                                       DK, DM, DZ, EC, EE, EG, ES, FI,
                                                                          GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
              LC, LK, LR, LS, LT, LÚ, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,
             NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,
             SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
             YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
     US 2006093577
                                  20060/504
                           A1
                                               US 2005-244811
PRAI US 2004-616787P
                                  2004/1006
                           Ρ
     The invention discloses the use of castanospermine in combination with
     another therapeutic agent to treat or prevent infections caused by or
     associated with a virus of the Flaviviridae family, particularly infections
     caused by or associated with Hepatitis C virus (HCV), and to the use of such
     compds. to examine the biol. mechanisms of HCV infection.
     882489-96-5
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
         (castanospermine-containing combination antiviral compns., and use for
        treatment of Flaviviridae infections)
     882489-96-5 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, mixt. with
RN
CN
     (1S, 6S, 7R, 8R, 8aR) -octahydro-1, 6, 7, 8-indolizinetetrol (9CI) (CA INDEX
     NAME)
     CM
          1
     CRN 640281-90-9
     CMF
         C15 H24 N4 O6
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CM 2

CRN 79831-76-8 CMF C8 H15 N O4

Absolute stereochemistry. Rotation (+).

L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
L4
     2006:149315 CAPLUS
ΑN
DN
     144:205728
     Methods using a Type II interferon receptor agonist alone or in
     combination with a direct antiviral drug for treating hepatitis C virus
     infection
Blatt, Lawrence M.
Intermuse, Inc., USA
PCT Int. Appl., 139 pp.
ΙN
PΑ
so
     CODEN: PIXXD2
DТ
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                             KIND
                                     DATE
                                                   APPLICATION NO.
                                                                              DATE
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PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2006016930 A2 20060216 WO 2005-US16927 20050513

WO 2006016930 A3 20060803

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DH, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
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NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI US 2004-571322P Р 20040514

The invention provides methods for treating hepatitis C virus (HCV) infection; methods for reducing the incidence of complications associated with HCV and cirrhosis of the liver; and methods for reducing viral load, or reducing the time to viral clearance, or reducing morbidity or mortality in the clin. outcomes, in patients suffering from HCV infection. The methods generally involve administering to the individual a Type II interferon receptor agonist alone or in combination with a direct antiviral drug.

640725-71-9, NM 283 ΙT

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(type II interferon receptor agonist alone or in combination with direct antiviral drug for treating hepatitis C virus infection)

RN 640725-71-9 CAPLUS

CN L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

2 HC1

- ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN L4
- 2005:1151389 CAPLUS ΆN
- DN 145:271979
- TΙ NM 283, an efficient prodrug of the potent anti-HCV agent 2'-C-methylcytidine
- ΑU Pierra, C.; Benzaria, S.; Amador, A.; Moussa, A.; Mathieu, S.; Storer, R.; Gosselin, G.
- CS Laboratoire Cooperatif Idenix, CNRS, Universite Montpellier II,
- Montpellier, 5, Fr. Nucleosides, Nucleotides & Nucleic Acids (2005), 24(5-7), 767-770 SO CODEN: NNNAFY; ISSN: 1525-7770
- РΒ Taylor & Francis, Inc.
- DTJournal
- English T.A
- OS CASREACT 145:271979
- In order to improve the oral bioavailability of 2'-C-methylcytidine, a potent anti-HCV agent, the corresponding $3^{\circ}-O-L-$ valinyl ester derivative (NM 283) has been synthesized. Based on its ease of synthesis and its physicochem. properties, NM 283 has emerged as a promising antiviral drug for treatment of chronic HCV infection.
- 640725-71-9P
 - RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (prodrug; preparation of NM 283 as efficient prodrug of potent anti-HCV agent 2'-C-methylcytidine)
- RN 640725-71-9 CAPLUS
- L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA CN INDEX NAME)

●2 HC1

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 10 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

2005:684531 CAPLUS AN

DN 143:431740

TΤ Emerging drugs for chronic hepatitis C

ΑU

Bhopale, Girish Mahadeorao; Nanda, Rabindra Kumar Research and Development Division, Hindustan Antibiotics Limited, Pimpri, CS Pune, 411018, India

so Hepatology Research (2008), 32(3), 146-153 CODEN: HPRSFM; ISSN: 1286-6346

PR Elsevier B.V.

DT Journal; General Review

English LA

A review. Hepatitis C virus (HCV) is a major cause of chronic hepatitis, AB liver cirrhosis and hepatocellular carcinoma worldwide. A combination therapy comprising pegylated interferon and ribavirin currently represents the most effective therapy for chronic HCV infection. The limitations of this current therapy mainly its efficacy and significant side effects have prompted the development of new drugs. Few categories of therapeutic agents appear promising for future therapy, e.g. novel interferons, ribavirin analogs, antisense oligonucleotides, short interfering RNAs, ribozymes, enzyme inhibitors, immunomodulatory agents, antifibrotic agents, therapeutic vaccines and antibodies. Few drugs belong to afore-mentioned categories have already reached the different clin. phases of development. The present article highlights the status of current available therapies and emerging drugs for the treatment of hepatitis C. 640725-71-9, NM 283 ΤТ

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (NM283 proved promising therapeutic effect in treating chronic

hepatitis C patient)

640725-71-9 CAPLUS RN

CN L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
T.4
     2005:216597 CAPLUS
AN
DN
     142:291323
ΤI
     Compositions and methods for the treatment of severe acute respiratory
     syndrome (SARS)
     Isis Pharmaceuticals, Inc., USA PCT Int. Appl. 217 pp.
IN
PΑ
SO
     CODEN: PIXXD2
DТ
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                           KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
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     WO 2005020885
                                  20050310
PΤ
                            A2
                                               WO 2004-US16196
                                                                        20040521
     WO 2005020885
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         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, LL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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              NO, NZ,
                     OM, PG, PH, PL,
                                       PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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              AZ, BY, KG, KZ, MD, RU,
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              EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
              SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
              SN, TD, TG
     US 2003-472774P P 20030521 The invention provides compnst and methods for treating a coronavirus
PRAI US 2003-472774P
     infection, especially a SARS CoV infection. The compns. comprise an antiviral
     nucleoside or mimetic thereof, or an antiviral antisense agent, in a form
     suitable for pulmonary or nasal delivery. The methods comprise
     administration to a patient in need thereof the effective amount of an
     antiviral composition by pulmonary or nasal instillation.
ΤТ
     640281-90-9
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
         (compns. and methods for treatment of severe acute respiratory
        syndrome)
     640281-90-9 CAPLUS
RN
     L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)
CN
Absolute stereochemistry.
```

```
ANSWER 12 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
L4
AN
     2004:515518 CAPLUS
DN
     141:38814
     Process for the production of 2'-branched nucleosides
ТT
      Storer, Richard; Moussa, Adel; Chaudhuri, Narayan; Waligora, Frank
IN
PΑ
     Idenix Cayman Limited, Cayman I.
SO
     PCT Int. Appl -- 90-pp --
     CODEN: PIXXD2
DT
     Patent
LA
      English
FAN.CNT 4
     PATENT NO.
                            KIND
                                    DATE
                                                  APPLICATION NO.
                                                                             DATE
                                    20,040624
PΤ
     WO 2004052899
                             A2
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                BY, KG, KZ, MD,
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                TR, BF, BJ, CF,
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                                 A1
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      EP 1585529
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744903 A 20060308 CN 2003-80109576 20031212
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      JP 2006514993
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                                                        JP 2005-511773
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PRAI US 2002-432766P
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      US 2003-466194P
                                         20030428
                                 Р
      WO 2003-US39643
                                         20031212
os
      CASREACT 141:38814
GΙ
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chilad obe

AB The present invention provides an improved process for preparing ss-D and ss-L 2'-C-methyl-nucleosides and 2'-C-methyl-3'-O-ester nucleosides, e.g. I, via glycosylation of methylribonolactone with nucleobases.

IT 640725-71-9P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for production of 2'-branched nucleosides via glycosylation of methylribonolactone with nucleobases)

RN 640725-71-9 CAPLUS

CN L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

L4 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN AN 2004:453348 CAPLUS

DN 141:17578

```
Treatment of Flaviviridae infection with 2'-branched nucleosides and
     another mutation inducing drug such as interferon
     Sommadossi, Jean-Pierre; La Colla, Paolo; Standring, David; Bichko, Vadim;
IN
PA
     Idenix (Cayman) Limited, Cayman I.; Universita Degli Studi Di Cagliari
SO
     PCT Int. Appl., 166 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                           KIND
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     WO 2004046331
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             138 A2 20050921 EP 2003-796412 20031117
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RC, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     EP 1576138
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     BR 2003016363
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     JP 2006519753
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                            Т2
                                               JP 2004-553823
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PRAI US 2002-426675P
                                  20021115
     WO 2003-US36714
                            W
                                  20031117
     MARPAT 141:17578
OS
     The present invention discloses a method for the treatment of Flaviviridae
AB
     infection that includes the administration of a 2'-branched nucleoside, or
     a pharmaceutically acceptable prodrug and/or salt thereof, to a human in
     need of therapy in combination or alternation with a drug that directly or
     indirectly induces a mutation in the viral genome at a location other than
     a mutation of a nucleotide that results in a change from serine to a
     different amino acid in the highly conserved consensus sequence,
     XRX<u>S</u>GXXXT, of domain B of the RNA polymerase region, or is associated
     with such a mutation. The invention also includes a method to detect a
     mutant strain of Flaviviridae and a method for its treatment. Thus, in
     bovine viral diarrhea virus (BVDV)-infected MDBK cells treated with
     \beta\text{-D-2'-methylcytidine}, viruses resistant to the nucleoside appeared.
     The drug resistance was associated with a mutation in the NS5B gene which
     resulted in an S405T substitution in the encoded RNA-dependent RNA
     polymerase. These mutant viruses were sensitive to Intron A (interferon
     \alpha-2b). Intron A and \beta-D-2'-methylcytidine exhibited
     synergistic inhibitory activity on BVDV growth in MDBK cells.
TΥ
     640281-90-9
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (treatment of Flaviviridae infection with 2'-branched nucleosides and
        another mutation-inducing drug such as interferon)
     640281-90-9 CAPLUS
RN
     L-Valine, 3'-ester with 2'-C-methylcytidine (9CI)
CN
Absolute stereochemistry.
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ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
L4
AN
     2004:20697 CAPLUS
DN
     140:87662
     2'-and-3'-nucleoside prodrugs for treating Flaviviridae infections
ΤI
    Sommadossi, Jean-pierre; (La Colla, Paolo; Storer, Richard; Gosselin,
ΤN
     Gilles
     Idenix (Cayman) Limited, Cayman I.; Centre National de la Recherche
     Scientifique; Universita Degli Studi di Cagliari
SO
     PCT Int. Appl., 2498 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 4
     PATENT NO.
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                                  DATE
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                                                                        DATE
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              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
              PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
              TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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     WO 2005020884
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              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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              AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
              EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
              SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
              SN, TD, TG
     EP 1656093
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         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
                                              NO 2005-466
     NO 2005000466
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PRAI US 2002-392350P
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     US 2003-466194P
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     US 2003-470949P
                                   20030514
     WO 2003-IB3901
                            W
                                   20030627
     WO 2004-US15395
                                   20040514
OS
     MARPAT 140:87662
     2' And 3'-Prodrugs of 1'-, 2'-, 3'-, or 4'-branched \beta-D or \beta-L
     nucleosides, or their pharmaceutically acceptable salts and derivs., are
     described which are useful in the prevention and treatment of Flaviviridae
     infections and other related conditions. These modified nucleosides
     provide superior results against flaviviruses and pestiviruses, including
     hepatitis C virus and viruses generally that replicate through an
     RNA-dependent RNA reverse transcriptase. Compds., compns., methods and
     uses are provided for the treatment of Flaviviridae infection, including
     HCV infection, that include the administration of an effective amount of the
     prodrugs of the invention, or their pharmaceutically acceptable salts or
     derivs. These drugs may optionally be administered in combination or
     alternation with further antiviral agents to prevent or treat Flaviviridae
     infections and other related conditions. Preparation of compds. of the
     invention is included.
     640725-71-9P
```

RN CN RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (nucleoside prodrugs for treating Flaviviridae infections) 640725-71-9 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

```
L4
    ANSWER 15 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
    2004:20696 CAPLUS
AN
DN
     140:77365
    Preparation of modified 2'- and 3'-nucleoside prodrugs for treating
ΤI
     Flaviviridae-infections-
   Sommadossi, Jean-pierre; La Colla, Poalo; Storer,
IN
                                                        Richard;
                                                                 Gosselin,
    (Gi-l-Les
PA
     Mentx (Cayman) Limited, Cayman I.; Universita degli studi di Cagliari;
    Centre National de la Recherche Scientifique
SO
     PCT Int. Appl., 201 pp.
    CODEN: PIXXD2
                               10/735,408
DT
    Patent
    English
LA
FAN.CNT 4
     PATENT NO.
                         KIND
                                DATE
                                             APPLICATION NO.
                                                                    DATE
    WO 2004002999
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                                20040108
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     NO 2005000465
                                                NO 2005-465
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                                   20030627
     WO 2004-US15395
                                   20040514
os
     MARPAT 140:77365
GΙ
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Ι

2' And/or 3' prodrugs of 1', 2', 3' or 4'-branched-nucleosides I, wherein R1-R3 are independently H, phosphate, alkyl, acyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester, benzyl, wherein the Ph group is optionally substituted with one or more substituents, alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, lipid, amino acid, carbohydrate, peptide, cholesterol; Yl is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR4, NH2, NHR4, NR4R5, SH or SR4; X1 and X2 are independently alkyl, CH3, CF3, CY3, 2-Br-Et, CH2F, CH2Cl, CH2CF3, CF2CF3, CY2CY3, CH2OH, alkenyl, alkynyl, COOH, COOR4, COO-alkyl, COO-aryl, CO-O-alkoxyalkyl, CONH2, CONHR4, CON(R4)2, halo, CN, N3, OH, OR4, NH2, NHR4, NR4R5, SH or SR5; Y is independently H, halo; and each R4 and R5 is independently hydrogen, acyl, alkyl, lower alkyl, alkenyl, alkynyl or cycloalkyl, and their pharmaceutically acceptable salts and derivs. are described. These prodrugs are useful in the prevention and treatment of Flaviviridae infections, including HCV infection, and other related conditions. Compds. and compns. of the prodrugs of the present invention are described. Methods and uses are also provided that include the administration of an effective amount of the prodrugs of the present invention, or their pharmaceutically acceptable salts or derivs. These drugs may optionally be administered in combination or alteration with further anti-viral agents to prevent or treat Flaviviridae infections and other related conditions. Thus, antiviral activity of β -D-2'-C-methyl-7-methyl-6-phenyl-3,3a,5,8a-tetrahydro-1,3,4,5,7apenta-aza-s-indacen-8-one is reported. 640281-90-9P RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic

preparation); PREP (Preparation); RACT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of modified and nucleoside prodrugs for treating flaviviridae infections)

RN 640281-90-9 CAPLUS

CN L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)

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L4
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     2004:20443 CAPLUS
ΔN
DN
     140:70984
     2'-C-methyl-3'-O-L-valine ester ribofuranosyl cytidine for treatment of
     flaviviridae infections
ΤN
     Sommadossi, Jean-Pierre; La Colla, Paolo
PΑ
     Idenix (Cayman) Limited, Cayman I.; Universita Degli Studi di Cagliari
     PCT Int. Appl., 110 pp.
SO
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DT
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LA
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FAN.CNT 4
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os
     MARPAT 140:70984
     The 3'-L-valine ester of \beta-D-2'-C-methyl-ribofuranosyl cytidine
AB
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provides superior results against flaviviruses and pestiviruses, including hepatitis C virus. Based on this discovery, compds., compns., methods and uses are provided for the treatment of flaviviridae, including HCV, that include the administration of an effective amount of val-mCyd or its salt,

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ester, prodrug or derivative, optionally in a pharmaceutically acceptable
     carrier. In an alternative embodiment, val-mCyd is used to treat any
      virus that replicates through an RNA-dependent RNA polymerase. Several
     examples are provided of the pharmacol., mechanism of action, metabolism, side effects, and clin. efficacy of the title compound 640281-90-9D, salts 642075-50-1 642075-51-2
      642075-52-3 642075-53-4 642075-54-5
      642075-55-6 642075-56-7 642075-57-8
      642075-58-9 642075-59-0 642075-60-3
     642075-61-4 642075-62-5 642075-63-6 642075-64-7 642075-65-8 642075-66-9
      642075-67-0 642075-68-1 642075-69-2
      642075-70-5 642075-71-6 642075-72-7
      642075-74-9 642075-75-0 642075-76-1
      642075-77-2
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (ribofuranosylcytidine methylvaline ester combined with other
         antivirals for treatment of flaviviridae infections)
     640281-90-9 CAPLUS
RN
     L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME)
CN
```

Absolute stereochemistry.

RN 642075-50-1 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, 4-methylbenzenesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9

Absolute stereochemistry.

CMF C15 H24 N4 O6

CM 2

CRN 104-15-4

CMF C7 H8 O3 S

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM2

CRN 75-75-2 CMF C H4 O3 S

RN642075-52-3 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, acetate (salt) (9CI) (CA INDEX NAME)

CM

CRN 640281-90-9 C15 H24 N4 O6 CMF

Absolute stereochemistry.

CM 2

CRN 64-19-7 CMF C2 H4 O2

RN

642075-53-4 CAPLUS
L-Valine, 3'-ester with 2'-C-methylcytidine, 2-hydroxy-1,2,3propanetricarboxylate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM 2

CRN 77-92-9 CMF C6 H8 O7

$$\begin{array}{c|c} & \text{CO}_2\text{H} \\ | & \\ \text{HO}_2\text{C} - \text{CH}_2 - \text{C} - \text{CH}_2 - \text{CO}_2\text{H} \\ | & \\ \text{OH} \end{array}$$

RN 642075-54-5 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, propanedioate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM 2

CRN 141-82-2 CMF C3 H4 O4

но2С-сн2-со2н

RN 642075-55-6 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, (2R,3R)-2,3-dihydroxybutanedioate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

McIntosh

CM

CRN 87-69-4 CMF C4 H6 O6

Absolute stereochemistry.

RN

642075-56-7 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, butanedioate (salt) (9CI) (CA INDEX NAME)

CM1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 110-15-6 CMF C4 H6 O4

 $_{\text{HO}_2\text{C}-\text{CH}_2-\text{CH}_2-\text{CO}_2\text{H}}$

642075-57-8 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, benzoate (salt) (9CI) (CA ŔŊ CNINDEX NAME)

CM

CRN 640281-90-9 CMF C15 H24 N4 O6

2 CM

CRN 65-85-0 CMF C7 H6 O2

642075-58-9 CAPLUS RNL-Ascorbic acid, compd. with L-valine 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME) CN

1 CM

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

2 CM

CRN 50-81-7 CMF C6 H8 O6

Absolute stereochemistry.

RN

642075-59-0 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, 2-oxopentanedioate (salt) (9CI) (CA INDEX NAME) CN

CM

CRN 640281-90-9

McIntosh

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10/607,909
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CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 328-50-7 CMF C5 H6 O5

642075-60-3 CAPLUS RN

L-Valine, 3'-ester with 2'-C-methylcytidine, 2,3-dihydroxypropyl phosphate CN (salt) (9CI) (CA INDEX NAME)

CM1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 57-03-4 CMF C3 H9 O6 P

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-- CH}_2\text{-- CH-- CH}_2\text{-- OPO}_3\text{H}_2 \end{array}$$

RN

642075-61-4 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, formate (salt) (9CI) (CA CNINDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

CM 2

CRN 64-18-6 CMF C H2 O2

O = CH - OH

RN 642075-62-5 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, (2E)-2-butenedioate (salt)
(9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9

Absolute stereochemistry.

CMF C15 H24 N4 O6

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 642075-63-6 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, propanoate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

CM

CRN 79-09-4 CMF C3 H6 O2

RN

642075-64-7 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, hydroxyacetate (salt) (9CI) (CA INDEX NAME) CN

CM

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 79-14-1 CMF C2 H4 O3

642075-65-8 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, 2-hydroxypropanoate (salt) RN CN (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

CM 2

CRN 50-21-5 CMF C3 H6 O3

RN

642075-66-9 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, 2-oxopropanoate (salt) (9CI) (CA INDEX NAME) CN

CM

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 127-17-3 CMF C3 H4 O3

RN

642075-67-0 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, ethanedioate (salt) (9CI) CN(CA INDEX NAME)

CM1

CRN 640281-90-9 CMF C15 H24 N4 O6

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN 642075-68-1 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, (2Z)-2-butenedioate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 642075-69-2 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, 2-hydroxybenzoate (salt)
(9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

CM 2

CRN 69-72-7 CMF C7 H6 O3

RN 642075-70-5 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM 2

CRN 7664-93-9 CMF H2 O4 S

RN 642075-71-6 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, nitrate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

CM2

CRN 7697-37-2 CMF H N O3

RN

CNINDEX NAME)

CM

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 463-79-6 CMF C H2 O3

642075-74-9 CAPLUS RN

CNL-Valine, 3'-ester with 2'-C-methylcytidine, hydrobromide (9CI) (CA INDEX NAME)

●x HBr

RN 642075-75-0 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, hydriodide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●x HI

RN 642075-76-1 CAPLUS
CN L-Valine, 3'-ester with 2'-C-methylcytidine, carbonate (2:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM 2

CRN 463-79-6 CMF C H2 O3

RN 642075-77-2 CAPLUS CN L-Valine, 3'-ester with 2'-C-methylcytidine, phosphate (salt) (9CI) (CA

McIntosh

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10/607,909
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INDEX NAME)

CM 1

CRN 640281-90-9 CMF C15 H24 N4 O6

Absolute stereochemistry.

CM

CRN 7664-38-2 CMF H3 O4 P

640281-90-9P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(ribofuranosylcytidine methylvaline ester for treatment of flaviviridae infections)

640281-90-9 CAPLUS RN

L-Valine, 3'-ester with 2'-C-methylcytidine (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

IT 640725-71-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(ribofuranosylcytidine methylvaline ester for treatment of flaviviridae infections)

RN

640725-71-9 CAPLUS L-Valine, 3'-ester with 2'-C-methylcytidine, dihydrochloride (9CI) (CA CN INDEX NAME)

●2 HCl

=> d his

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L1

L2

L3

FILE 'CAPLUS' ENTERED AT 13:52:32 ON 08 DEC 2006 $$16\ \mathrm{S}\ \mathrm{L3}$$ L4